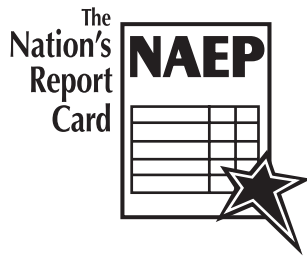NATIONAL ASSESSMENT OF
EDUCATIONAL PROGRESS (NAEP)

DEMONSTRATION BOOKLET

2005
READING, MATHEMATICS,
AND SCIENCE

GRADE 12

The
Nation's
Report
Card **NAEP**

The Nation's Report Card NAEP

2005

Grade 12

SECTION

1	S13
2	S14
3	D1
4	SB1
5	S6

BOOK

S205G

School and Teacher Information

SCHOOL #

TEACHER #

TOTAL TIME for ACCOMMODATION

ADMIN CODE

ACCOMMODATIONS

none	N
71	Y
72	Y
73	Y
74	Y
75	Y
76	Y
77	Y
78	Y
79	Y
80	Y
81	Y
82	Y

PLACE LABEL HERE

DO NOT USE

0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9

NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS 2005 DEMONSTRATION BOOKLET

TABLE OF CONTENTS

ABOUT THIS
DEMONSTRATION BOOKLET

On behalf of the National Assessment of Educational Progress (NAEP) project team, I want to thank you and other members of your school system for agreeing to participate in the NAEP assessment. Your participation is essential and highly valued. The data that NAEP provides about student achievement are widely used by policymakers, educators, and researchers throughout the nation.

Since 1969, NAEP assessments have been conducted periodically in reading, mathematics, science, writing, U.S. history, civics, geography, and the arts. In 2005, NAEP will conduct operational tests in reading, mathematics, and science at grades 4, 8, and 12.

The assessment will require about 90–100 minutes of a student's time. Each participating student will receive a reading, mathematics, or science booklet. The booklet will include two 25-minute sections of test questions and a brief background questionnaire that asks students about their experience with reading, mathematics, or science. Students' answers to all questions are confidential and student names are removed from all completed assessment materials.

This demonstration booklet describes the 2005 assessments. The first three sections explain the purposes and content of the NAEP reading, mathematics, and science assessments and provide sample test questions at each grade level. The fourth section includes the directions and the background questions that all students will be asked to answer. The final part of the booklet, located on the back cover, presents general information about the NAEP program.

The sample questions included in this booklet are intended to convey the kinds of questions and question formats that compose the 2005 assessments. All released questions from previous NAEP assessments are available to be viewed and downloaded from the NAEP web site at *http:// nces.ed.gov/nationsreportcard*. The actual questions in the assessment must be safeguarded to maintain the integrity of the assessment and resulting data, but members of the public may request access to secure NAEP questions. Information on how to make such a request is included on the back page of this booklet.

If you have any questions or comments regarding the NAEP program or this booklet, please refer to the NAEP web site at *http://nces.ed.gov/nationsreportcard* or call Sherran Osborne of the National Center for Education Statistics at 202–502–7420.

> Peggy G. Carr, Associate Commissioner
> Education Assessment
> National Center for Education Statistics

THE READING ASSESSMENT

The NAEP reading assessment measures students' ability to understand, to interpret, and to think critically about different types of texts. Recognizing that readers vary their approach according to the demands of different types of text, the NAEP framework specifies the assessment of reading in three contexts: *reading for literary experience, reading to gain information*, and *reading to perform a task*. The assessment comprises reading materials selected from publications and other resources typically available to students in and out of school.

Across the three contexts for reading, students are asked to demonstrate their understanding by responding to comprehension questions that reflect four different approaches to understanding text. The NAEP framework accounts for these different approaches by specifying four aspects of reading that represent the types of comprehension questions asked of students. *Forming a general understanding* questions ask students to consider the text as a whole. *Developing an interpretation* questions ask students to discern connections and relationships within the text. *Making reader/text connections* questions ask students to connect information from the text with prior knowledge and experience. *Examining content and structure* questions ask students to critically evaluate the content, organization, and form of the text. All four aspects of reading are assessed at all three grades within the contexts for reading described above.

The NAEP reading assessment contains multiple-choice questions, as well as short and extended constructed-response questions. Students spend approximately 50 to 60 percent of their assessment time providing written answers to constructed-response questions.

Distribution of Percentage of Assessment Time Across
Contexts for Reading in the NAEP Reading Framework

Literary	Informative	Task
35%	45%	20%

READING BOOKLET DIRECTIONS

In each of the next two sections, you will have 25 minutes to read a story, an article, or a document and answer questions about it. You should think carefully about your answers, and you should use the entire 25 minutes to complete each section.

You will be asked to respond to three different types of questions. Some of the questions will require you to choose the best answer and fill in the oval for that answer in your booklet.

For other questions, you will be asked to write short answers on the blank lines provided in your booklet. Here is an example of a question that requires you to provide a short answer.

Example 1

> Give an example from the article that shows Mandy was not a quitter.
>
> *One example is that Mandy's mother didn't want her to umpire in public, but Mandy persuaded her mother to let her.*

Also, you may be asked to answer other questions by writing longer, more detailed responses on a full page of blank lines. For example, here is a question that requires you to provide a longer answer.

Example 2

> Explain how Mandy's mother and brother helped Mandy to become the first women umpire.
>
> Mandy's mother helped her by agreeing to let her umpire at a public ball game. Mandy did so well that the team offered her a job as umpire. Mandy's brother helped her by letting her play baseball with him. He also helped Mandy to persuade their mother to let her play in public.

When you are asked to write your response be sure that your handwriting is clear. Think carefully about each question and make your answers as complete as possible, using as many lines as you need.

You may go back to the story, article, or document when answering any of the questions. If you finish before time is called, be sure to read your work again and change anything that you think will make your answers better.

STOP

SAMPLE READING QUESTIONS
GRADE 12

BARGAIN BASEMENT

$25 and under

AIR CONDITIONER Fedders, large works $25. 555 1076

ALL KINDS OF GOLF CLUBS— $20. after 3PM. 555 5507

ANTIQUE WARDROBE – Needs lt. work. 1st $25. 555 1326

ASSORTED SZS, WINDOWS & DOORS – $25. 555 8261

BEACH UMBRELLAS – $5/each. 555 7092

BED FRAME – Twin or Full size $15. 555 0572

BIKE RACK – $20, cot $10. call 555 7640

BIKE – Boys $25 electricians supplies $5 25. 555 7797

BIKE – Girls 16" Schwinn VG Cond. $25. 555 9724

BLACK & WHITE TV – 20" good cond. $25. 555 2924

BLACK LEATHER ROLL CAGE COVERS – $25. 555 8109

BMX – Free Style Bike nice $25. Call 555 2124

BOOKS — PAPER BACKS – & hard covers. $.15 - $1. 555-0750

BOWLING BALL – w/leather bag $25. 555 1138

BOYS SUIT JACKETS – One brown 1 blue sz. 12 $10. 555 0608

BRASS TONE HEADBOARD – & bedframe $20. 555 4783

BRICK FLOWER BED EDGING —$1/ea rug braided. 555 6988

BUSHINGS – Polyurethane shock boot $1.50. 555 8109

CAKE PLATE – 50th anniv. gold trim Nu $12. 555 8011

CAN OPENER – Rival under the counter $5. 555 4707

CEILING FAN – New 52" white $20. 555 6376

CHANGING TABLE – $10. potty $3., vaporizer $3. 555 2005

$25 and under

COFFEE DECANTERS – Glass $2 new, have 5. 555 0688

COUCH – Early American nice $20. 555 2145

CURTAINS – Sheers 108x84 white $20, call 555 6376

DESERT STORM – Series 2 and 3 $12 per box. 555 7093

DESERT STORM – Series 1 cards $12 per box. 555 7093

DICK CEPEK BLACK LIGHT BAR – $15 new. 555 8109

ELEC. MOWER – $15 good outdoor chairs $2. 555 6104

ELECTRIC FENCE ITEMS—Poles battery case etc. $25. 555 0490

FARBER ELECTRIC BROILER— $15. 555 4783

FLOOR TILE – Armstrong white 1 box $4. 555 6962

FLOOR JACK – 6 ft. hght $10. call 555 5034

FORMICA – 2' × 2' $.25/each 2' × 4' $.50 colors. 555 8597

FREE FIREWOOD – Call 555-1823

FREE ORANGE KITTEN – (1). call 555-8392

FREE RABBIT HUTCH – Free standing 2' × 7'. 555 6711

FUEL OIL TANK – Inside, 275 gallon, $25. 555 9604

GARAGE DOOR OPENER – For parts $7. 555 6911

GAS CAN – 5 gallon $10. call 555 3724

GOLF CART – Like new. $20. Call after 3PM. 555 5507

GOLF BAG – & Irons 3, 2, 9, $25. 555 7092

GOLF BALLS – $2 dz. putters, sand wedge $10. 555-3575

$25 and under

HAIR SALON FURNITURE – Free. 555 8109

HEPA FILTER – 12 x 12 $25. Call 555 6127

HIGH CHAIR – $25. Century windup swing $5. 555 0559

HOSE – For sump pump new 13 ft. $6. 555-5434

HOSTA – 25¢ up, CORAL BELLES. Flowering Cabbage Plants, $1. 555 2445

INSULATION – 6" × 15' fiber glass $8. roll. 555-1017 after 6 p.m.

JACK NICKLAUS GOLF CLUBS $25. after 3 PM 555-5507

JEAN JACKETS – Med. was $75 only $25. 555-0608

LADIES BETTER DRESSES – size 9 12, $2. 555 0750

LADIES BETTER DRESSES – size 9-12, $2. 555 0750

LADIES BETTER DRESSES – size 9 12, $2. 555 0750

LAMPS – Pictures Mr. Coffee Broiler $1. up. 555 3575

LAMPS – 2 $15/each 1 crib & mattress $20. 555 0567

LAWN MOWER – 22" push rotary $20. 555-1457

LEATHER ROLL CAGE COVERS — Brand new $25. 555-8109

LESTOIL SPRAY FLOOR CLEANER — $12 a case 555 4707

LIGHT FIXTURES – Bath, din ing, foyer, kitchen. Total of 8. $5 $20 ea. 555 7503

LOCK – Shalage entry brush aluminum $12. 555 5434

LONDON FOG COAT – W/lin-ing egg shell $15. 555 5434

$25 and under

MAPLE BOARDS – $2. a Sq.Ft. 1"2"3". Call 555 1822

MECHANIC'S CREEPER – & Jack stands $25. 555 6127

MEDICINE CABINET – $5. Call 555-0572

MINI BLINDS – Shade white 60W $15. Call 555 8640

MOTOR FURNACE – 1/4H.P. A 1 Delco $20. 555 1138

MOWER – Push type 18 Crafts man $20. Good cond. 555 0958

NEW DOORS – Prhng. &blrd $25. Also new locks $3.50 555 0572

PAINTERS TOOLS – Work bag & clothes. $1 $5/ea. Call 555 7503

PATIO TILE – In/out 6x6 new terra cotta 21¢. 555 1544

PING PONG TABLE – Official size V. good, $25. 555 4987

PLAYPEN – $10. Please call 555 1915

PORT. TV – BW 6" $15, record player $10/bo. 555 3575

ROLLER – 30" × 12" concrete filled, $25. 555 6040

RUG RUNNER BRAIDED – Mauve 29"w × 11'L $20. 555 4101

SALTON ELECTRIC WARMER SERVING CART – $25. 555 4283

SCHWINN STINGRAY – $20. ladies 26" $25. 555 7456

SCREWS – Black type 2" & 2 1/2" 13 lbs. $25. 555 5434

SEARS MOWERS – Mechanics special pair $25. 555 3432

SHEETMOSS – 1/2 box to line wire basket, $13. 555 0234

SHORTS – 25 pair girls, some new sz. 12, $15. 555 0627

SILVERPLATE PLATTER – $20. 8mm movie camera. 555 7456

SKATES – In line roller like new $20/bo. 555 6009

SOFA BED – Sleeps (2) good $25. After 6, 555 1159

$25 and under

STORM DOOR – Screen 80 x 35 3/4, $25. 555 1138

STREET HOCKEY NET – $10 new in box. 555 1660

TABLE – Wrought Iron round 38", $25. 555 8380

TALL END TABLE – lamp & shade $15. 555 0750

TENT – 9x9 umbrella exc. cond., $25 555-2674

TIRES – P235/75R15 on GM rims $20/ea. 555-6296

TIRES – On rims Ford Ranger pair $25. 555 3432

TRAILER HITCH – $20/bo. Call 555 5038

TRX CYCLE – For child old $20. 555 5038 good.

TYPEWRITERS – Elec, manual $10. &$5. port. Singer sew. mach. $15. 555 0219

VACUUM – Canister style, good $25. 555 7456

VACUUM – Hoover Canister $25. all attach. 555-8428

WARN WINCH FRONT BUMP-ER – Black $25. 555-8109

WATER LILLIES – Variety com-anche $15. 555 2569

WINDOW FAN – 18" w/slides $25. 555 2660

WINDSHIELD – 71' 75' caddy CPE, $25. 555 6296

$26 to $100

6 NEW CABLE REMOTES – For TKR box $35/ea. 555 3950

AIR CONDITIONER CASEMENT WINDOW – $100 firm. 555 5422

BED – 4 poster maple $50, cushion patio set, $70. 555 8876

BEDROOM FURN. – 1940's, waterfall col, wardrobe clos, dresser/ngtstnd, nds. refin, $65. 555-7503

BIKE – Ladies Schwinn 10spd., 24", $75. exc. cond. 555 9571

$26 to 100

BIKE – 26 3 speed runs OK 1st $50. after 3PM 555-7154

CAMARO THM350 MALIBU – THM 350 $75. 555 2135 lv. msg.

CHAIR – Stratlounger excel. cond., $75. 555-5434

COLOR TV'S – 2. 15" and 17". $80 and $90. Call anytime. 555 6373

DRAFTING TABLE – Lamp & chair $60. 555 9389

EXERCISE BIKE – White, lk. new, $65. Call Michael 555 2503

FORD C-4 AUTO TRANS – $75. Call 555 0140

GAS STOVE – 30" glass door, good cond. $100. 555 0958

GOLF CLUB SET – Irons, woods, bag, $85. 555 7258

GRATEFUL DEAD TICKETS – (6) great seats $65/ea. 555 1377

HAYWARD EARTH FILTER – 3/4 hp. asking $100. Call 555-5547

HEALTH MEMBERSHIP – Hamilton Fitness Club, $100. Call 10-8 555-7223

LAWN MOWERS – $25/up. A-1 cond. Call 555-9232

LAWNMOWER – Lawnboy, 21" self prop. $75. 555 5147

LAWNMOWER – 21" self prop. rear bag $90. 555-8428

MEN 12 SPD BIKE – $55, brand new. Baby monitor, $20. Wood high chair, $25 555 1561

MOVING – Computer hutch, $35. Call John in Lawrenceville. 555-8083

MOWER – Gas 21 Briggs runs good $55. 3-6PM 555 7154

POSTAGE STAMP COLLECTION – Mostly U.S. $50. 555-9505

REDWOOD – 48" round table 3 benches, $50. 555 0233

REFRIG – Washer, dryer-stove $90/bo good. 555 0076

$26 to 100	$26 to 100	$26 to 100
REFRIGERATOR – Good. cond. $100. LIPTON MICROWAVE, $50. 555-2640	**SKIER ROWER** – Good cond. $80. Call 555-9581	**TABLE & 4 CHAIRS** – Glass & oak top, $65. 555-9389
REFRIGERATOR – Large sideXside $95. 555 3592	**SMITH CORONA** – Electronic typewriter, new $75. 555 7384	**TATUNG MONITOR** – $40. Call 555-5383
REMOTE PLANE – & all to fly $100/bo Dennis. 555 1321	**SOFA** – $100, Chair $50, kitchen table $10. 555-2152	**TENT** – 2 person yellow/teal canvas, no flr, but incl. 2 infl. mattr, $30. 555 7503
SEGA GENESIS GAMES – $30 ea. Like new. Call Steve at 555-6153 afternoons &eves	**SOFA** – Chair ottoman, blue flowered, $100. 555-3220	**TYPEWRITER** – Electric, $40. Smith Corona 555 8428
	SOFABED – Like new, beige, blues, browns $89. 555 6806	**YAMAHA 500 DIRTBIKE** – Not Running, $100. Call 555-9332
	STEREO – HI FI Cabinet type, 8-track AM/FM, $40. 555- 4987	

1. The Bargain Basement ads are divided into sections identified by the headings "$25 and under" and "$26 to $100." Suggest another way that this information could be organized and what the advantages would be.

WO000925

_____

_____

_____

_____

_____

2. Which three types of information are usually found in these classified ads?

Ⓐ Original cost, age of item, size of item

Ⓑ Item description, home address, phone number

Ⓒ Phone number, item description, cost of the item

Ⓓ Item condition, seller's name, time of day to call

WO000926

GO ON TO THE NEXT PAGE

3. It is possible to place a free ad in the Bargain Basement section. If you want to place a free ad, your items must be

Ⓐ sold within five days

Ⓑ priced at $25 or less

Ⓒ in good condition

Ⓓ inspected by the editor

WO000927

4. Suppose you want to buy a bicycle. Look at the ads for bicycles listed in the Bargain Basement section. Tell which advertised bicycle interests you the most. Explain how you used the information in the ads to make your selection.

WO001004

_____

_____

_____

5. Abbreviations in the ads are useful because they

Ⓐ communicate information while saving space

Ⓑ allow for different interpretations

Ⓒ make each section more interesting

Ⓓ make the items within a section appear to be similar

WO000931

6. What is an acceptable way to place a $1 Bargain Basement ad in this newspaper?

Ⓐ Phone in the ad, pay by credit card.

Ⓑ Phone in the ad, pay by money order.

Ⓒ Mail the ad, pay by cash.

Ⓓ Mail the ad, pay by check.

WO000932

GO ON TO THE NEXT PAGE

7. Think of one item under $25 to advertise in a Bargain Basement classified ad. Write the ad directly on the form below for John or Jane Jones from 1210 Locust Street, Midtown, NY 00001. Their phone number is (212) 555-3456.

WO000933

BARGAIN BASEMENT

Use this coupon for items over $25 but not more than $100

3 DAYS FOR $1

We'll insert your classified ad for 3 consecutive days in the BARGAIN BASEMENT section. To qualify, the advertised item must be over $25 but not more than $100 and each item must be priced. Enclose check or money order with coupon.

Instructions:

1. Print one (1) letter in each space.

2. Allow one (1) space between words.

3. Include punctuation marks within the appropriate letter space.

4. All ADS MUST HAVE PRICE AND PHONE NUMBER IN THEM.

5. No businesses; individuals only qualify for this rate.

6. Maximum of 3 orders (9 insertions) per item.

FIRST LINE

SECOND LINE

Name_____

Address_____

3 DAYS FOR FREE

SPECIAL OFFER
Items must be $25 or less

Follow the above instructions & mail us this coupon to insert your free ad for 3 consecutive days in the BARGAIN BASEMENT section. The advertised item must be $25 or less and each item must be priced.

$1 ads and free ads accepted only on this coupon. $1 ads and free ads will not be accepted by phone. No cancellations or refunds. Coupons also available at the CLASSIFIED Counter of The Times. The Times reserves the right to limit the quantity of free ads in any given publication.

Mail to: The Times Newspaper, BARGAIN BASEMENT, P.O. Box 847, Trenton, N.J. 08605

8. Suggest a way to improve the ordering form for Bargain Basement classified ads. WO000930

_____

_____

_____

_____

_____

9. What are three possible mistakes in writing an ad that could prevent it from being published? WO000934

_____

_____

_____

_____

_____

STOP

THE MATHEMATICS ASSESSMENT

The NAEP mathematics assessment measures students' ability to solve problems in five mathematics content strands: Number Properties and Operations; Measurement; Geometry; Data Analysis and Probability; and Algebra. Within each of these five content strands, students are asked questions that involve low, moderate, and high mathematical complexity.

The NAEP mathematics assessment includes multiple-choice questions, short-answer constructed-response questions, and extended constructed-response questions. The extended exercises allow students to communicate their ideas and demonstrate the reasoning they used to solve problems. The short-answer and extended-response questions make up approximately 50 percent of student assessment time. The assessment also incorporates the use of calculators (at all grades), rulers (at all grades), protractors (at grades 8 and 12), and ancillary materials such as spinners and geometric shapes in some parts of the assessment, but not all.

Calculator use is permitted on approximately one-third of the test questions (four-function calculators at Grade 4, scientific calculators at grade 8, and scientific or graphing calculators at grade 12). At grades 4 and 8, NAEP provides calculators for all students. At grade 12, students may use their own scientific or graphing calculators.

Distribution of Percentage of Assessment Questions Across Content Strands in the NAEP Mathematics Framework

Number Properties and Operations	10%
Measurement	30%
Geometry	
Data Analysis and Probability	25%
Algebra	35%

MATHEMATICS BOOKLET DIRECTIONS

This assessment uses many different booklets. Each booklet has different questions. Do not worry if the person next to you is working on questions that do not look like those you are working on.

Read each question carefully and answer it as well as you can. Do not spend too much time on any one question.

For some of the questions you may need to write or draw the answer. You can see how this is done in the example below.

Draw a circle in the space below.
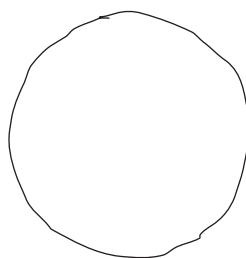
You may be given a calculator to use for at least one part of your booklet. If you are given a calculator, you will have to decide when to use it in each section where its use is permitted. For some questions using the calculator is helpful, but for other questions the calculator may not be helpful. After each question you will be asked to indicate whether you used the calculator.

When you receive the calculator, make sure you know how to use it. There are instructions on the back cover of this booklet to help you. If the calculator does not work or if you do not know how to use it, raise your hand and ask for help.

REMEMBER:

Read each question CAREFULLY.

Fill in only ONE OVAL for each question or write your answer in the space provided.

If you change your answer, ERASE your first answer COMPLETELY.

CHECK OVER your work if you finish a section early.

Do not go past the STOP **sign at the end of each section until you are told to do so.**

STOP

SAMPLE MATHEMATICS QUESTIONS
GRADE 12

1. In the figure below, use the protractor to draw a line *m* through point *P* perpendicular to segment AP. In the answer space provided, give the measure of the smaller angle formed by lines *ℓ* and *m*.

A

ℓ ——————————————————— *P*
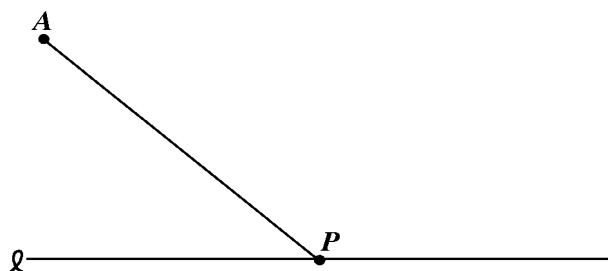
Answer:

_____

---

2. A certain machine produces 300 nails per minute. At this rate, how long will it take the machine to produce enough nails to fill 5 boxes of nails if each box will contain 250 nails?

   Ⓐ 4 min

   Ⓑ 4 min 6 sec

   Ⓒ 4 min 10 sec

   Ⓓ 4 min 50 sec

   Ⓔ 5 min

3. The table below shows the daily attendance at two movie theaters for 5 days and the mean (average) and the median attendance.

	Theater A	Theater B
Day 1	100	72
Day 2	87	97
Day 3	90	70
Day 4	10	71
Day 5	91	100
Mean (average)	75.6	82
Median	90	72

(a) Which statistic, the mean or the median, would you use to describe the typical daily attendance for the 5 days at Theater A? Justify your answer.

(b) Which statistic, the mean or the median, would you use to describe the typical daily attendance for the 5 days at Theater B? Justify your answer.

STOP

THE SCIENCE ASSESSMENT

The NAEP science assessment is organized according to a content-by-process matrix. The content area consists of three fields of science: earth science, life science, and physical science. The three process categories (knowing and doing) are conceptual understanding, scientific investigation, and practical reasoning. In addition, there are two overarching domains that describe science, nature of science, and themes.

The 2005 NAEP assessment in science contains multiple-choice questions, as well as short and extended constructed-response exercises. At least 50% of the assessment time is devoted to constructed-response exercises. These questions measure students' knowledge of facts, ability to integrate this knowledge into larger constructs, and the capacity to use the tools, procedures, and reasoning processes of science to develop an increased understanding of the natural world.

Distribution of Percentage of Assessment Time Across Fields of Science in the NAEP Science Framework

Earth Science includes solid Earth, water, air, and Earth in space	**Physical Science** includes matter, energy, and motion	**Life Science** includes change and evolution, cells, organisms, and ecology
33%	33%	33%

SCIENCE BOOKLET DIRECTIONS

In each of sections 1 and 2, you will have 25 minutes to answer a series of questions about science.

You will be asked to respond to several different types of questions. Some of the questions will require you to choose the best answer and fill in the oval for that answer in your booklet. On questions like this, be sure to mark your answers clearly and darken the oval completely. If you make a mistake or want to change your answer, be sure to erase any unwanted marks. Here is an example of a question that requires you to fill in an oval.

Example 1

> How hot is it on the surface of the Sun?
>
> Ⓐ   Not quite as hot as boiling water
>
> Ⓑ   About as hot as fire
>
> Ⓒ   About 100°F
>
> ●   Much hotter than almost anything on Earth

For some questions, you will be asked to write short answers on the blank lines provided in your booklet. Here is an example of a question that requires you to provide a short answer.

Example 2

> Describe one important difference between plants and animals.
>
> *Most plants make their own food, while animals eat plants and other animals for food.*

Also, you will be asked to answer some questions by writing longer, more detailed responses. For example, here is a question that requires you to provide a longer answer.

Example 3

Describe three things that animals do to survive in areas that have cold winters.

Some animals store a lot of fat so that they can go into a deep sleep all winter. Some animals grow a thick coat of fur to keep them warm. Some birds and butterflies fly away from a cold area and spend the winter in a place that is warm and has a lot of food.

When you are asked to write your response be sure that your handwriting is clear. Think carefully about each question and make your answers as complete as possible, using as many lines as you need. If you finish a section before time is called, you may go back and check your work on that section only.

Finally, in some questions you may be asked to draw a diagram or fill in a table.

STOP

SAMPLE SCIENCE QUESTIONS
GRADE 12
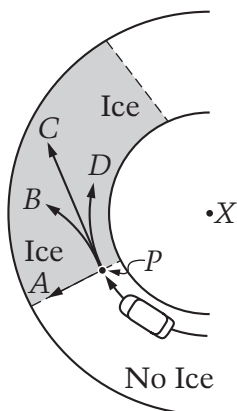
HE001646

1. A car initially travels with constant speed around a tight, unbanked curve in a circular arc with center *X*, as shown in the diagram above. At position *P*, the car encounters a patch of ice, which reduces the frictional force on the tires to zero.

   Which of the following best shows the path that the car takes while it is on the ice?

   Ⓐ   *A*

   Ⓑ   *B*

   Ⓒ   *C*

   Ⓓ   *D*

JL001149

2. When very small particles in a dish of water are examined with a powerful microscope, the particles often appear to move in a rapid, random motion. Explain what causes this movement of the particles.

   _____

   _____

   _____

   _____

GO ON TO THE NEXT PAGE ▶

River Valley I   River Valley II
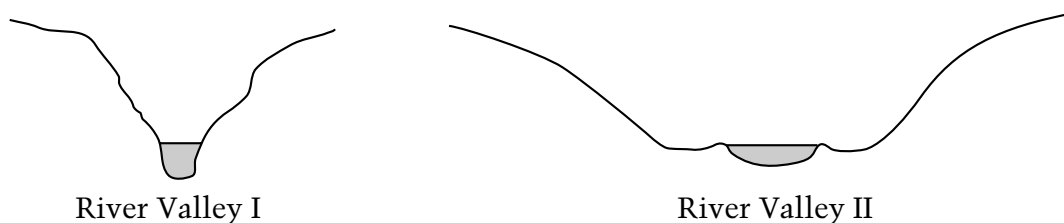
JL001119

3. The diagram above shows a cross section of two river valleys. In each diagram, the river is represented by the shaded region. Which river valley is in its more mature stage of development? What two features in the diagram make you think so?

_____

_____

HE001623

4. During the time in the Earth's history when the first amphibians appeared, which of the following was one of the major groups of plants that dominated the land habitats?

Ⓐ   Cone-bearing trees (gymnosperms)

Ⓑ   Flowering plants (angiosperms)

Ⓒ   Ferns

Ⓓ   Algae

STOP

STUDENT BACKGROUND QUESTIONNAIRE

GENERAL DIRECTIONS FOR GRADE 12

In the next two sections, you will be asked questions about yourself and your education. The choices for some questions will be written across the page as shown. Fill in the oval for the best answer.

Example 1

	Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day
1. How often do you watch movies on TV?	Ⓐ	Ⓑ	Ⓒ	Ⓓ

You should have filled in the oval below the answer that best tells how often you watch movies on TV.

The choices for some questions will be written down the page as shown. Now read Example 2 and indicate your answer.

Example 2

2. Which event would you prefer to attend?

Ⓐ basketball game

Ⓑ car show

Ⓒ concert

Ⓓ play

Make your answer mark clear and dark in the oval. If you make a mistake or want to change your answer, be sure to completely erase any unwanted marks.

Do not go past the 🛑 **sign at the end of each section until you are told to do so.**

If you finish before time is called, go back and check your work on that section only. Use your time carefully. Do as much as you can in each section.

🛑 **STOP**

STUDENT BACKGROUND QUESTIONNAIRE

In this section, please tell us about yourself and your family. The section has 14 questions. Mark your answers in your booklet.

VB331330

1. Are you Hispanic or Latino? Fill in **one or more ovals.**

   - Ⓐ No, I am not Hispanic or Latino.

   - Ⓑ Yes, I am Mexican, Mexican American, or Chicano.

   - Ⓒ Yes, I am Puerto Rican or Puerto Rican American.

   - Ⓓ Yes, I am Cuban or Cuban American.

   - Ⓔ Yes, I am from some other Hispanic or Latino background.

VB331331

2. Which of the following best describes you? Fill in **one or more ovals.**

   - Ⓐ White

   - Ⓑ Black or African American

   - Ⓒ Asian

   - Ⓓ American Indian or Alaska Native

   - Ⓔ Native Hawaiian or other Pacific Islander

For the rest of the questions in this section, fill in only **one** oval for each question.

VB331333

3. Does your family get a newspaper at least four times a week?

Ⓐ Yes

Ⓑ No

Ⓒ I don't know.

VB331334

4. Does your family get any magazines regularly?

Ⓐ Yes

Ⓑ No

Ⓒ I don't know.

VB331335

5. About how many books are there in your home?

Ⓐ Few (0–10)

Ⓑ Enough to fill one shelf (11–25)

Ⓒ Enough to fill one bookcase (26–100)

Ⓓ Enough to fill several bookcases (more than 100)

VB331336

6. Is there a computer at home that you use?

Ⓐ Yes

Ⓑ No

VB331337

7. Is there an encyclopedia in your home? It could be a set of books, or it could be on the computer.

Ⓐ Yes

Ⓑ No

Ⓒ I don't know.

TB001101

8. About how many pages a day do you have to read in school and for homework?

Ⓐ 5 or fewer

Ⓑ 6–10

Ⓒ 11–15

Ⓓ 16–20

Ⓔ More than 20

VB331339

9. How often do you talk about things you have studied in school with someone in your family?

Ⓐ Never or hardly ever

Ⓑ Once every few weeks

Ⓒ About once a week

Ⓓ Two or three times a week

Ⓔ Every day

VB331447

10. How many days were you absent from school in the last month?

Ⓐ None

Ⓑ 1 or 2 days

Ⓒ 3 or 4 days

Ⓓ 5 to 10 days

Ⓔ More than 10 days

VB330870

11. How far in school did your mother go?

Ⓐ She did not finish high school.

Ⓑ She graduated from high school.

Ⓒ She had some education after high school.

Ⓓ She graduated from college.

Ⓔ I don't know.

VB330871

12. How far in school did your father go?

Ⓐ He did not finish high school.

Ⓑ He graduated from high school.

Ⓒ He had some education after high school.

Ⓓ He graduated from college.

Ⓔ I don't know.

VB331451

13. How often do people in your home talk to each other in a language other than English?

Ⓐ Never

Ⓑ Once in a while

Ⓒ About half of the time

Ⓓ All or most of the time

HE002549

14. Which of the following best describes your high school program?

Ⓐ General

Ⓑ Academic or college preparatory

Ⓒ Vocational or technical

STOP

STUDENT BACKGROUND QUESTIONNAIRE

READING—GRADE 12

This section has 15 questions. Mark your answers in your booklet. Fill in only **one** oval for each question.

VB345622

1. Please indicate how much you DISAGREE or AGREE with the following statements about reading and writing. Fill in **one** oval on each line.

	Strongly disagree	Disagree	Agree	Strongly agree	
a. When I read books, I learn a lot.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB345623
b. Reading is one of my favorite activities.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB345624

VB379288

2. How often do you do each of the following? Fill in **one** oval on each line.

	Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day	
a. Read for fun on your own time	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB379289
b. Talk with your friends or family about something you have read	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB379290

GO ON TO THE NEXT PAGE

VB345628

3. NOT including reading that you do for school, how often do you spend time reading each of the following types of **fiction**? Fill in **one** oval on each line.

	Never or hardly ever	A few times a year	Once or twice a month	At least once a week	
a. Comic books or joke books	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB345629
b. Fiction books or stories (books or stories about imagined events)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB345630
c. Plays	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB345631
d. Poems	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB345632

VB345657

4. NOT including reading that you do for school, how often do you spend time reading each of the following types of **non-fiction**? Fill in **one** oval on each line.

	Never or hardly ever	A few times a year	Once or twice a month	At least once a week	
a. Biographies or autobiographies	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB345658
b. Books about science (for example, nature, animals, astronomy)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB345659
c. Books about technology (for example, machines, computers)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB345660
d. Books about other countries	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB345661
e. Books about history	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB345662
f. Other non-fiction books	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB345664

VB345640

5. NOT including reading that you do for school, how often do you spend time reading each of the following types of **articles or stories**? Fill in **one** oval on each line.

	Never or hardly ever	A few times a year	Once or twice a month	At least once a week	
a. Articles or stories in a newspaper	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB345641
b. Articles or stories in a magazine	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB345642
c. Articles or stories on the Internet	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB345643

VB345644

6. Now think about reading and writing you do for school. For your **English** class this year, how often do you do each of the following? Fill in **one** oval on each line.

	Never or hardly ever	A few times a year	Once or twice a month	At least once a week	
a. Have a class discussion about something that the whole class has read	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB345645
b. Work in pairs or small groups to talk about something that you have read	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB345646
c. Write in a journal about something that you have read for English class	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB345647

VB345648

7. For your **English** class so far this year, how many times have you done each of the following? Fill in **one** oval on each line.

	Never	Once	2 or 3 times	4 or 5 times	6 or more times	
a. Written a report or paper about something that you have read (for example, a book report)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB345649
b. Made a presentation to the class about something that you have read	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB345650
c. Done a project about something that you have read (for example, written a play, created a web site)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB345651

VB345652

8. Think about the classes that you are taking this year. How often do you read something that is **NOT** a textbook for each of the following classes? Fill in **one** oval on each line.

	Never or hardly ever	A few times a year	Once or twice a month	At least once a week	I don't take this class	
a. English class (for example, plays, fiction books)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB345653
b. Science class (for example, science magazines, biographies of scientists)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB345654
c. Social studies or history class (for example, books about people who lived a long time ago, real letters written a long time ago)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB345655
d. Math class (for example, math word-games)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB345656

VB345715

9. For school this year, how often have you been asked to write long answers to questions on tests or assignments that involved reading?

   Ⓐ Never

   Ⓑ Once or twice this year

   Ⓒ Once or twice a month

   Ⓓ At least once a week

VB429520

10. When you have reading assignments in school, how often does your teacher do each of the following? Fill in **one** oval on each line.

	Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day	
a. Ask you to explain or support your understanding of what you have read	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB429521
b. Ask you to discuss different interpretations of what you have read	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB429582

VB595182

11. How hard was this test compared to most other tests you have taken this year in school?

   Ⓐ Easier than other tests

   Ⓑ About as hard as other tests

   Ⓒ Harder than other tests

   Ⓓ Much harder than other tests

VC034559

12. How hard did you try on this test compared to how hard you tried on most other tests you have taken this year in school?

 (A) Not as hard as on other tests

 (B) About as hard as on other tests

 (C) Harder than on other tests

 (D) Much harder than on other tests

VB595184

13. How important was it to you to do well on this test?

 (A) Not very important

 (B) Somewhat important

 (C) Important

 (D) Very important

QK 070697

14. How much education do you think you will complete?

 (A) I will not finish high school.

 (B) I will graduate from high school.

 (C) I will have some education after high school.

 (D) I will graduate from college.

 (E) I will go to graduate school.

 (F) I don't know.

TB005501

15. What do you expect that your main activity will be in the year after you leave high school?

 (A) Working full time

 (B) Attending a vocational, technical, or business school

 (C) Attending a two-year college

 (D) Attending a four-year college, service academy, or university

 (E) Serving in the regular military service

 (F) Other

STOP

STUDENT BACKGROUND QUESTIONNAIRE
MATHEMATICS—GRADE 12

This section has 16 questions. Mark your answer in your booklet. Unless directed otherwise, fill in only **one** oval for each question.

1. Which courses have you taken from eighth grade to the present? **Fill in one or more ovals on** [VB543279] **each line**. INCLUDE courses taken in summer school, but DO NOT INCLUDE topics that were only taught as part of a longer course (such as trigonometry taught in drafting class or computer programming taught in Algebra II).

	I have never taken this course	I took this course in or before Grade 8	I took this course in Grade 9	I took this course in Grade 10	I took this course in Grade 11	I took this course in Grade 12	
a. **Basic** or **general** mathematics course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	[VB543280]
b. **Tech-prep** mathematics, **business** mathematics, **consumer** mathematics, or other **applied mathematics** course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	[VB543281]
c. **Introduction to algebra** or **pre-algebra** course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	[VB543282]
d. **Algebra I** course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	[VB543283]
e. **Geometry** course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	[VB543285]
f. **Algebra II** course, **with or without trigonometry**	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	[VB543286]
g. **Trigonometry** (as a separate course)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	[VB543287]
h. **Pre-calculus** course, (also called third-year algebra or elementary functions and analysis)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	[VB543288]
i. **Unified, integrated, or sequential** mathematics course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	[VB543289]
j. **Probability or statistics** course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	[VB543290]
k. **Calculus** course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	[VB543292]
l. **Discrete or finite** mathematics course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	[VB543291]
m. **Other** mathematics course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	[VB543293]
n. **Computer programming** course (such as C++, Pascal, Visual Basic, etc.)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	[VB543294]

VB543295

2. Are you currently enrolled in or have you taken an Advanced Placement (AP) course in mathematics? Fill in **one or more** ovals.

Ⓐ Yes, I am enrolled in or have taken Advanced Placement (AP) Calculus AB

Ⓑ Yes, I am enrolled in or have taken Advanced Placement (AP) Calculus BC

Ⓒ Yes, I am enrolled in or have taken Advanced Placement (AP) Statistics

Ⓓ No, I have never taken an Advanced Placement (AP) mathematics course

VB543297

3. Are you currently enrolled in or have you taken any **online** mathematics courses for **high school or college credit**?

Ⓐ Yes

Ⓑ No

VB543264

4. How often do you use a computer to play mathematics games that are **not for a mathematics class**?

Ⓐ Never or hardly ever

Ⓑ Once every few weeks

Ⓒ About once a week

Ⓓ Two or three times a week

Ⓔ Every day or almost every day

VB543267

5. What kind of calculator do you usually use when you are **not in mathematics class**?

Ⓐ None

Ⓑ Basic four-function (addition, subtraction, multiplication, division)

Ⓒ Scientific (not graphing)

Ⓓ Graphing

VB517284

6. Are you currently taking a mathematics course?

Ⓐ Yes ➔ **Go to Question 7**

Ⓑ No ➔ **Skip to Question 14**.

GO ON TO THE NEXT PAGE

VB525162

7. How often do you use a computer for mathematics at school?

   Ⓐ Never or hardly ever

   Ⓑ Once every few weeks

   Ⓒ About once a week

   Ⓓ Two or three times a week

   Ⓔ Every day or almost every day

VB543148

8. On a typical day, how much time do you spend doing work for mathematics class on a computer? Include work you do in class and for homework.

   Ⓐ None

   Ⓑ Half an hour or less

   Ⓒ About 1 hour

   Ⓓ About 2 hours

   Ⓔ More than 2 hours

VB543155

9. When you are doing mathematics for school or homework, how often do you use these **different types of computer programs**? Fill in one oval on each line.

	Never or hardly ever	Once every few weeks	About once a week	Two or three times a week	Every day or almost every day	
a. A spreadsheet program for mathematics class assignments	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB543157
b. A program to practice or drill on math facts (addition, subtraction, multiplication, division)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB543158
c. A program that presents new mathematics lessons with problems to solve	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB543160
d. The Internet to learn things for mathematics class	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB543159
e. A calculator program on the computer to solve or check problems for mathematics class	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB543161
f. A graphing program on the computer to make charts or graphs for mathematics class	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB543262
g. A statistical program to calculate patterns such as correlations or cross-tabulations	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB517157

VB543149

10. When you are **doing mathematics for school or homework**, how often do you **use a computer** for the following? Fill in one oval on each line.

	Never or hardly ever	Once every few weeks	About once a week	Two or three times a week	Every day or almost every day	
a. Chat online with friends about mathematics class work or homework (for example, e-mail, chat rooms, or instant messaging)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB543152
b. Find out about mathematics class work or homework from your teacher using e-mail, instant messaging, web, etc.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB543153
c. Use a computer to get help with mathematics from an outside source (for example, online tutoring)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB543154

VB517159

11. How often do you use these different types of calculators in your mathematics class?

	Never use	Sometimes but not often	Usually use	
a. Basic four-function (addition, subtraction, multiplication, division)	Ⓐ	Ⓑ	Ⓒ	VB517160
b. Scientific (not graphing)	Ⓐ	Ⓑ	Ⓒ	VB517162
c. Graphing	Ⓐ	Ⓑ	Ⓒ	VB517282

GO ON TO THE NEXT PAGE

12. For each of the following activities, how often do you use a **calculator**? Fill in **one** oval on each line.

	Never or hardly ever	Once every few weeks	About once a week	Two or three times a week	Every day or almost every day	
a. To check your work on mathematics homework assignments	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB543270
b. To calculate the answers to mathematics homework problems	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB543271
c. To work in class on mathematics lessons led by your teacher	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB543272

13. When you take a mathematics test or quiz, how often do you use a calculator?

   Ⓐ Never

   Ⓑ Sometimes

   Ⓒ Always

14. How hard was this test compared to most other tests you have taken this year in school?

   Ⓐ Easier than other tests

   Ⓑ About as hard as other tests

   Ⓒ Harder than other tests

   Ⓓ Much harder than other tests

15. How hard did you try on this test, compared to how hard you tried on most other tests you have taken this year in school?

   Ⓐ Not as hard as on other tests

   Ⓑ About as hard as on other tests

   Ⓒ Harder than on other tests

   Ⓓ Much harder than on other tests

16. How important was it to you to do well on this test?

   Ⓐ Not very important

   Ⓑ Somewhat important

   Ⓒ Important

   Ⓓ Very important

STOP

STUDENT BACKGROUND QUESTIONNAIRE

SCIENCE—GRADE 12

This section has 14 questions. Mark your answers in your booklet. Fill in only **one** oval for each question. Unless directed otherwise, fill in only **one** oval for each question.

HE002996

1. How much do you agree with the following statements? Fill in **one** oval on each line.

	Disagree	Not sure	Agree	
a. I like science.	Ⓐ	Ⓑ	Ⓒ	HE002997
b. I am good at science.	Ⓐ	Ⓑ	Ⓒ	HE002998
c. Science is useful for solving everyday problems.	Ⓐ	Ⓑ	Ⓒ	HE003000
d. Science is boring.	Ⓐ	Ⓑ	Ⓒ	HE003003

LC000172

2. Are you taking a science course this year?

Ⓐ Yes

Ⓑ No

GO ON TO THE NEXT PAGE

ID110225

3. Which courses have you taken from the eighth grade to the present? You should fill in more than one oval in each row if you have taken a course of that description more than once. If you have never taken a particular course, fill in the oval in the column "**Course not taken**." **Fill in at least one oval in each row.**

	Course not taken	I took this course in Grade 8	I took this course in Grade 9	I took this course in Grade 10	I took this course in Grade 11	I took this course in Grade 12	
a. Earth (and space) science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	ID110226
b. Life science (other than biology)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	ID110227
c. Physical science (other than chemistry or physics)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	ID110228
d. General science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	ID110229
e. Integrated science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	ID110230
f. First-year biology	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	ID110231
g. Second-year biology	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	ID110232
h. First-year chemistry	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	ID110233
i. Second-year chemistry	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	ID110234
j. First-year physics	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	ID110235
k. Second-year physics	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	ID110236
l. Science and technology	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	ID110237
m. Other science course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	ID110238

GO ON TO THE NEXT PAGE

ID110275

4. Are you currently enrolled in or have you taken an Advanced Placement course in science? Fill in ovals for **all** that apply.

Ⓐ Yes, I am enrolled in or have taken Advanced Placement Biology.

Ⓑ Yes, I am enrolled in or have taken Advanced Placement Environmental Science.

Ⓒ Yes, I am enrolled in or have taken Advanced Placement Chemistry.

Ⓓ Yes, I am enrolled in or have taken Advanced Placement Physics B or C.

Ⓔ Yes, I am enrolled in or have taken Advanced Placement Computer Science A or AB.

Ⓕ No, I have never taken an Advanced Placement science course.

ID110276

5. Are you currently enrolled in or have you taken International Baccalaureate courses in science?

Ⓐ Yes

Ⓑ No

GO ON TO THE NEXT PAGE

HE003014

6. When you study science in school, how often do you do each of the following? Fill in **one** oval on each line.

	Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day	
a. Read a science textbook	Ⓐ	Ⓑ	Ⓒ	Ⓓ	HE003015
b. Read a book or a magazine about science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	HE003016
c. Discuss science in the news	Ⓐ	Ⓑ	Ⓒ	Ⓓ	HE003017
d. Work with other students on a science activity or project	Ⓐ	Ⓑ	Ⓒ	Ⓓ	WO001033
e. Give an oral science report	Ⓐ	Ⓑ	Ⓒ	Ⓓ	WO001034
f. Prepare a written science report	Ⓐ	Ⓑ	Ⓒ	Ⓓ	WO001035
g. Do hands-on activities or investigations in science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	LD001451
h. Talk about the measurements and results from your hands-on activities or investigations	Ⓐ	Ⓑ	Ⓒ	Ⓓ	LD001477
i. Use a computer for science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	WO001038
j. Take a science test or quiz	Ⓐ	Ⓑ	Ⓒ	Ⓓ	WO001039
k. Use library resources for science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	WO001040

WO001042

7. When you study science in school, how often does your teacher do each of the following? Fill in **one** oval on each line.

	Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day	
a. Do a science demonstration	Ⓐ	Ⓑ	Ⓒ	Ⓓ	WO001044
b. Use computers for science (e.g., science software, telecommunications)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	WO001046

LC000147

8. Do you ever do science projects in school that take a week or more?

Ⓐ Yes

Ⓑ No

QK070712

9. This year in school, how often have you been asked to write long answers to questions on tests or assignments for science?

Ⓐ Never

Ⓑ Once or twice this year

Ⓒ Once or twice a month

Ⓓ At least once a week

VB595182

10. How hard was this test compared to most other tests you have taken this year in school?

Ⓐ Easier than other tests

Ⓑ About as hard as other tests

Ⓒ Harder than other tests

Ⓓ Much harder than other tests

VC034559

11. How hard did you try on this test compared to how hard you tried on most other tests you have taken this year in school?

Ⓐ Not as hard as on other tests

Ⓑ About as hard as on other tests

Ⓒ Harder than on other tests

Ⓓ Much harder than on other tests

VB595184

12. How important was it to you to do well on this test?

   Ⓐ Not very important

   Ⓑ Somewhat important

   Ⓒ Important

   Ⓓ Very important

QK070697

13. How much education do you think you will complete?

   Ⓐ I will not finish high school.

   Ⓑ I will graduate from high school.

   Ⓒ I will have some education after high school.

   Ⓓ I will graduate from college.

   Ⓔ I will go to graduate school.

   Ⓕ I don't know.

TB005501

14. What do you expect that your main activity will be in the year after you leave high school?

   Ⓐ Working full time

   Ⓑ Attending a vocational, technical, or business school

   Ⓒ Attending a two-year college

   Ⓓ Attending a four-year college, service academy, or university

   Ⓔ Serving in the regular military service

   Ⓕ Other

STOP

NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS 2005
READING, MATHEMATICS, AND SCIENCE

INFORMATION ABOUT NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS

PROJECT MISSION. NAEP is administered by the U.S. Department of Education to report on the achievement of American students in key academic subjects. For more information about the NAEP program, visit the NAEP web site at *http://nces.ed.gov/nationsreportcard* or call 202–502–7420.

PARTICIPATION. States and districts that receive Title I funds are required to participate in biennial NAEP reading and mathematics assessments at grades 4 and 8. Teacher and student participation is always voluntary. Contact your school's NAEP coordinator for more information.

NAEP CONTENT. The National Assessment Governing Board (NAGB) develops frameworks detailing what students reasonably might be expected to know and do for each subject assessed by NAEP. For additional information on framework development, see the NAGB web site at *http://nagb.org*.

SAMPLE NAEP QUESTIONS. For each assessment, some of the test questions, along with performance data, are made available to the public to provide concrete samples of NAEP contents and results. For every assessment, NAEP distributes to participating schools demonstration booklets that provide more detailed information about the assessment design and questions. Released questions and student performance data may be viewed on and downloaded from the NCES web site at *http://nces.ed.gov/nationsreportcard/itmrls*.

SECURE NAEP QUESTIONS. On written request, adults may review NAEP questions and instruments still in use. These arrangements must be made in advance, and persons reviewing the assessment may not remove the booklets from the room, copy them, or take notes. Contact your school's NAEP coordinator for more information.

NAEP REPORTS. NAEP publications can be searched and downloaded from the NAEP web site at *http://nces.ed.gov/nationsreportcard*.

FOR FURTHER INFORMATION. For prompt field staff support on these or other matters, call the NAEP Help Desk at 800–283–6237.